

**BUILT FOR PLEASURE! PROGRAMMED FOR DESTRUCTION!** 

SHE'S THE PERFECT KILLING MACHINE!





### **An Interactive Movie on CD-ROM!**



### **BEST CD-ROM**



"...a dazzling multimedia science fiction novel that tips its hat to pulp classics while showing us the way to the future... perhaps the best reason yet to hook up a CD to your Mac."

### - Steven Levy MACWORLD

"Spaceship Warlock is an excellent excuse for buying a CD-ROM drive."

- Tom Moran MACWORLD

"The overall design of the CD-ROM is brilliant — well conceived and meticulous in its design."

- MACWORLD U.K.





- MACUSER

"This three dimensional science fiction world you move through as if you are an active participant may not be virtual reality, but Spaceship Warlock could be the next best thing."

- NEW MEDIA

"Everyone agrees: Spaceship Warlock is a hit... a milestone in the progress of interactive media."

Tony Bove & Cheryl Rhodes
 INSIDE REPORT

" It heralds the next generation of computer entertainment."

- Craig Crossman - THE MIAMI HERALD

# S P A C E S H I P MARLO ( )

Robustly detailed and dazzling in its sweep and depth, SPACESHIP WARLOCK™ is a blazing, swashbuckling, wonder-filled science fiction epic in the grand tradition! Advanced graphics, 3D animation, and an original music score combine to create a cinematic adventure in which YOU become the central character! SPACESHIP WARLOCK is an interactive saga that you can experience again and again!

You are aboard the Spaceship *Belshazzar* out of Stambul when the pirate ship **WARLOCK** attacks. The dark ship shrugs off the Belshazzar's heaviest weapons and the marauders pour through the hull. Captured and taken aboard the pirate vessel, you are about to embark on a journey beyond imagining, a journey across the galaxy in the ultimate adventure...

Get the award-winning, best-selling CD-ROM created by Reactor! Spaceship Warlock features megabytes upon megabytes of breathtaking art and animation. Presented in a wide-screen letterbox format, it's a virtual walk-through adventure simulation light years beyond anything you've seen before!

### REQUIREMENTS

Macintosh - 8-bit color, 13" monitor, 3.5 megabytes of free RAM, CD-ROM drive.

PC - IBM or 100% compatible 386 or higher with 4 MB of RAM, CD-ROM drive, Windows 3.1, Super VGA (640x480, 256 colors), SoundBlaster®/Pro® or 100% compatible MPC sound card.













## BOOT UP

### **DONNA MATRIX**

Created with advanced computer 3D modeling and imaging, DONNA MATRIX arrives as a breakthrough in the history of comic books. Mankind's first written communications were pictures. We've gone from cave art to the printing press to computer generated graphics faster than it takes to make a rock.

Computer Graphic Imaging (CGI) has evolved to the point that millions of artists, animators and graphic designer are using computers on a daily basis for the creation of dynamic imagery. Comic books are still, almost entirely, drawn and lettered by hand. Many firms still perform color separation by using mechanical, not digital processes. DONNA MATRIX is the first digital comic.

REACTOR, a new label on the comic book scene, breaks out of the pen and ink strait jacket. Adapting computers for graphic story telling creates a bold new palette for comic book artists. With the artistic freedom of advanced computer 3D modeling and imaging, Digital Comics heralds a new era of comic book entertainment.

### DIGITAL COMICS: RIDING THE WAVE

By 1983, Mike Saenz found the tedious constraints of developing and publishing comics frustrating. He realized computers could free him as an artist. However, the software technology of the mid-eighties was not evolved to where his imagination could take him.

Knowing this, he spent the next ten years working in the computer industry. In 1984, using a first generation Macintosh computer, Saenz created SHATTER #1. As the first computer generated comic book, SHATTER attracted lavish media attention and broke all sales records among the independent comic publishers of the time.

Comic Works, the first computer program for creating comic books, was designed by Saenz in 1985. A year later, Saenz consulted on Kaleidoscope (Pixel Craft), a trailblazing method of coloring convention comic art. That system is used throughout the comic book industry today.

Continuing to break new ground, Saenz created IRON MAN: CRASH (Marvel Comics), the first full-color computer generated graphic novel. A landmark in desk top publishing, the IRON MAN graphic novel pioneered full-color pre-press lithography for desk top systems.

### **BREAK OUT**

After years of work, Saenz was ready to explore his own ideas. Fired with what he imagined computer entertainment could be, Saenz founded his company, REACTOR, in 1989.

REACTOR lead the field with innovative CD-ROM games. Virtual Valerie in 1990 and Spaceship Warlock in 1991 are international award winners.

Saenz had finally achieved the command of the software and technology and the independence he needed to fulfill his long held dream. Digital Comics was born.

### **VIRTUAL MOVIES**

Watching a Digital Comic being created is like being on a virtual movie set. Constructed within a computer are three dimensional sets and 3D characters. Artificial lights are positioned and a virtual camera is maneuvered within the computer generated environment to capture the images.

Unlike conventional hand drawn comics, CGI artists aren't limited to the first, fifth, or fiftieth draft. The artist is free to choose from an unlimited number of examples to find the perfect frame.

Lush and robust art work is the vivid hallmark of computer graphic imaging. The crisp, clean graphics seduce the reader into the illusion of a photorealistic comic book world. Compelling pictures are just the beginning. Starting with engaging stories, Digital Comics emphasizes the cutting edge of comic books.

The Digital Comics team is made up of skilled veterans from the comic book and computer software industries. Liberated with the CGI technology, the team is devoted to exploring the exciting new potentials of digital graphic design and computer graphic story telling. Join us in the adventure!

--Robert Carr

DIGITAL COMICS.

CREATED AND WRITTEN BY

Mike Saenz

ART - LAYOUT - COMPUTER IMAGING

Norm Dwyer

3-D MODELING

Norm Dwyor Joseph Allen Mike Saena

**GRAPHIC DESIGN** 

Mike Saem

forenh Alle





Publisher, Editor-in-Chief Mike Saenz

Special Projects Manager Norm Dwyer

Creative Assistant Joseph Allen

Managing Director Rich Saenz

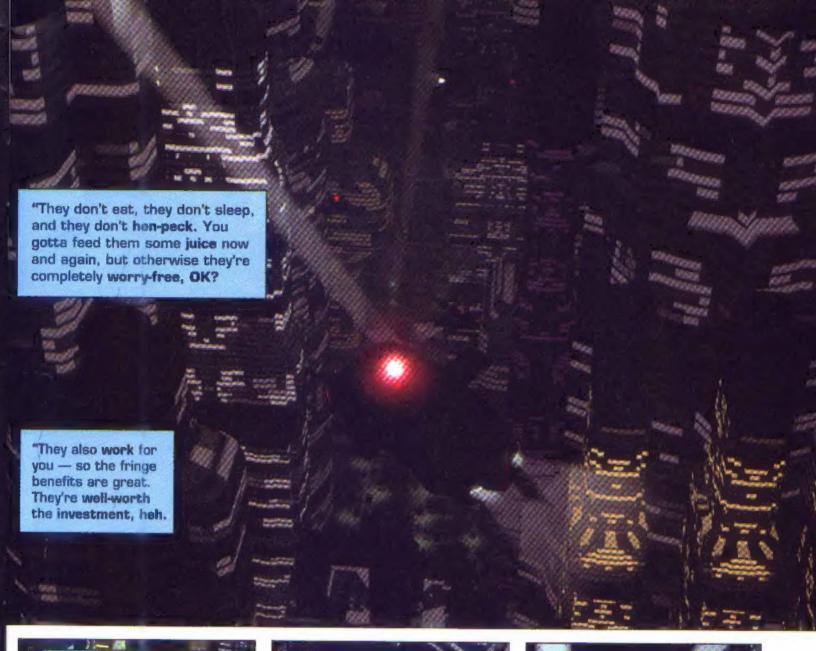
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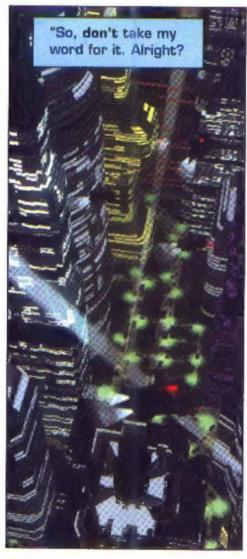
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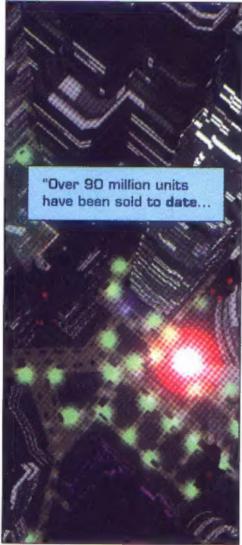
Tel: (312) 573-0800 Fax: (312) 573-0891

America Online: ReactorInc AppleLink: ReactorInc

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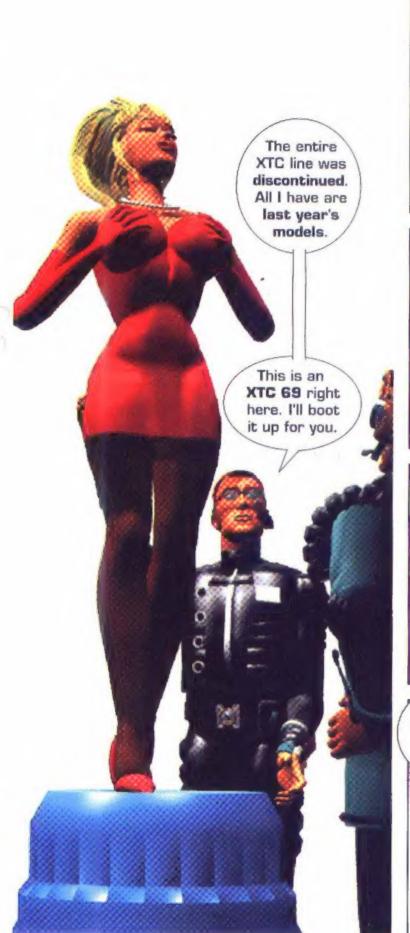
















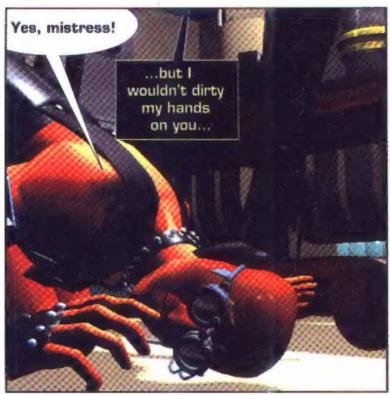


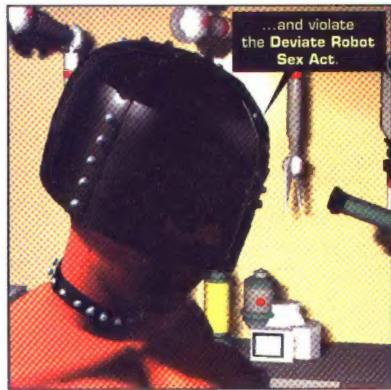














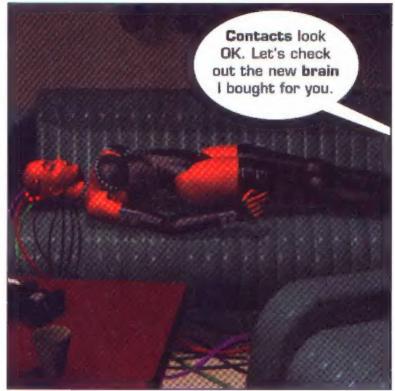


























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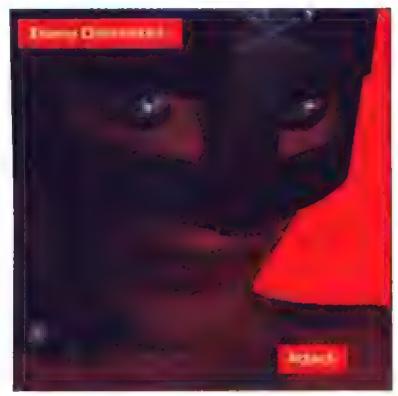
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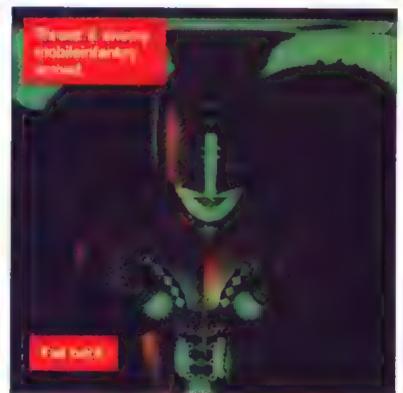












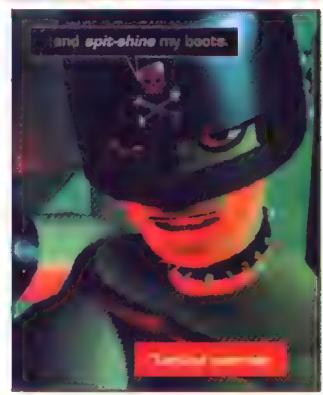


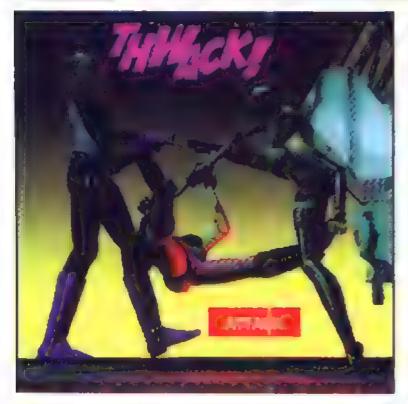
























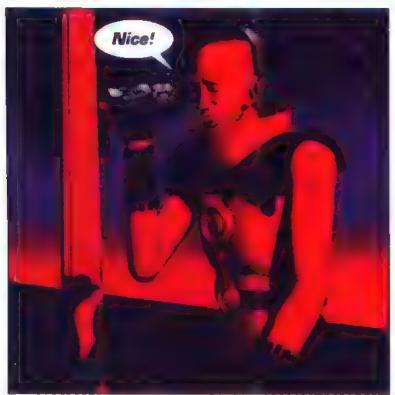




























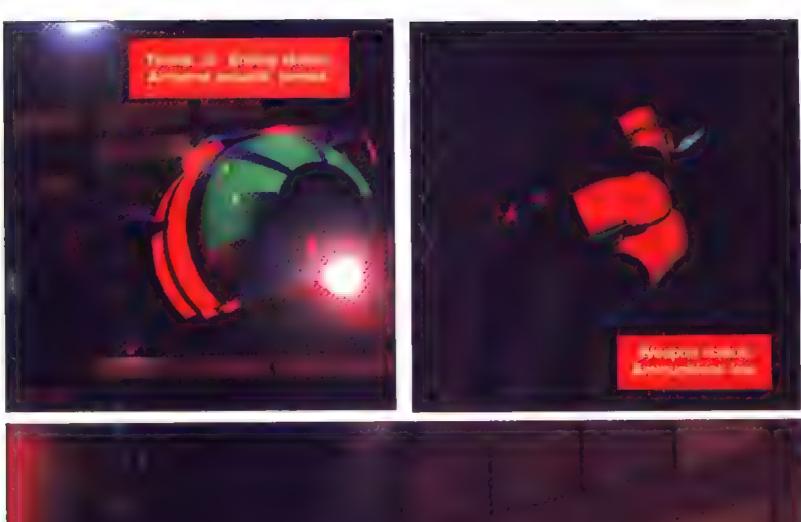










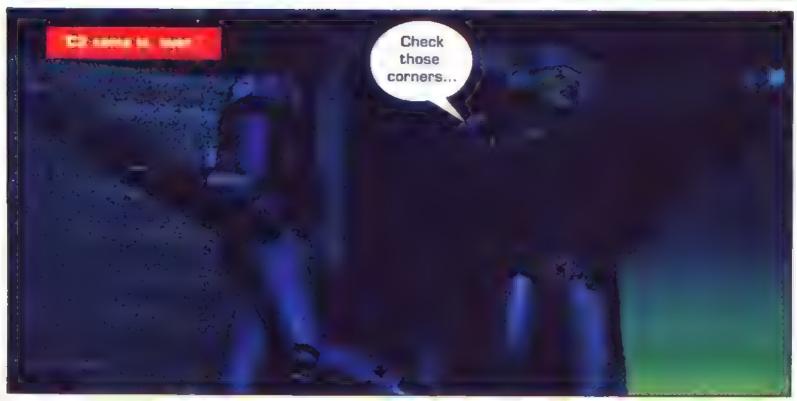














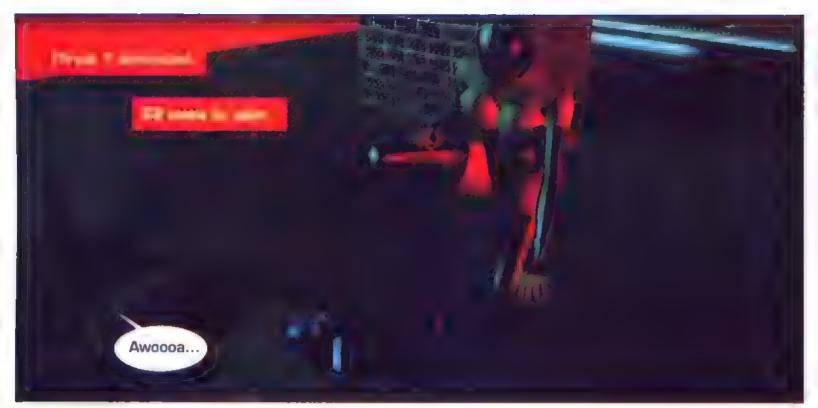














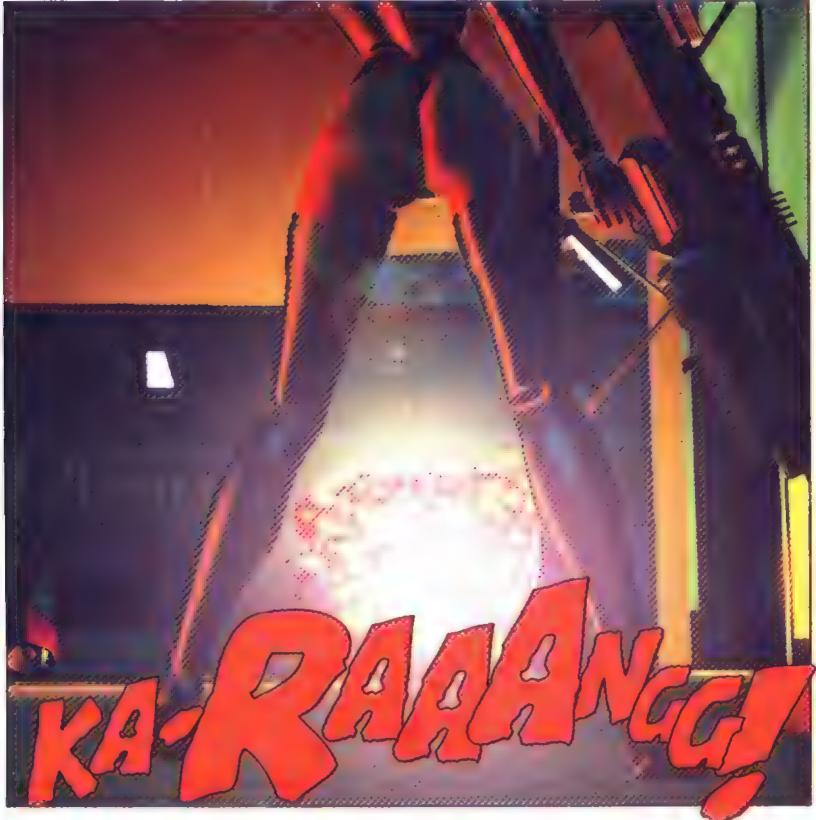






























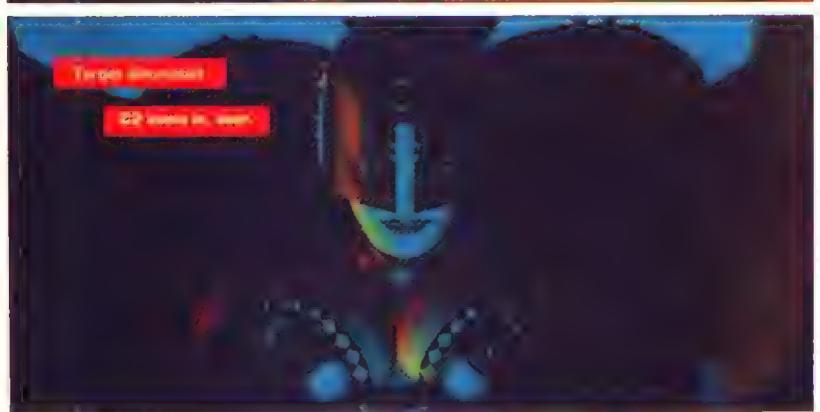
















"Look! She's gonna hit that building!!"



Barriero,





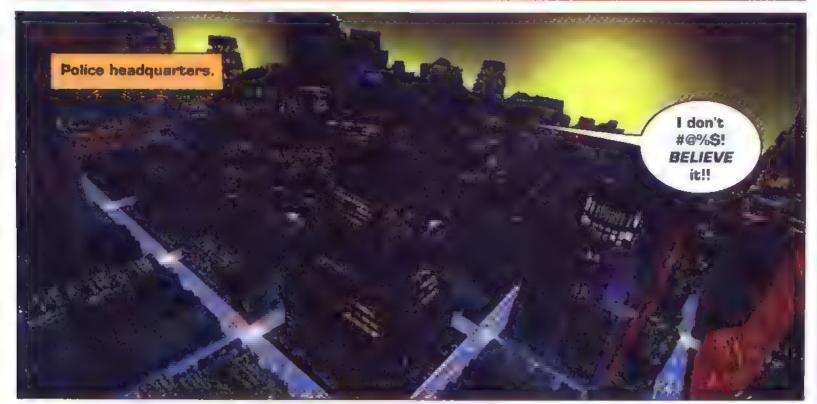






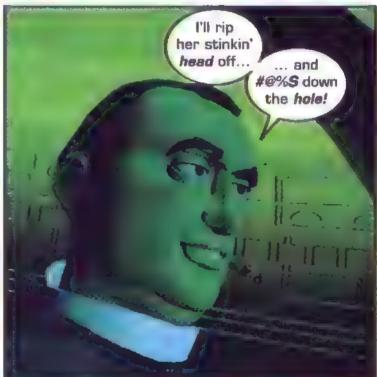






















REACTOR has created the first computer 3D generated comic book! Now we reveal how this ground-breaking comic was created.

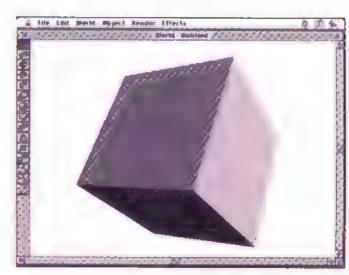
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The name Donn. Matr.x and the concept of a killer female android was xicking around in Mike Saenz's brain since 1989—but it wasn't until 1993 when the Beact it learn began discussing the possibility of creating a line of computer generated comic books, that Mike knew exactly what to do with ner. It was decided that Donna Matrix, the reque robot that blazes a trail of destruction this light 21st century Chicago, would premiere as the first comic book under the lightal Comics imprint prior to becoming an interactive CD ROM adventure. Mike penned the first issue and outlined an additional 16 issues of Donna Matrix.

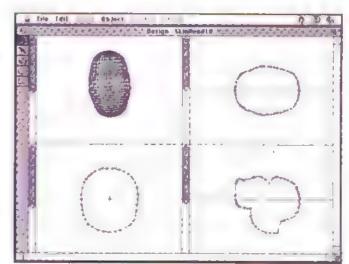
Working from 1.1.ke's script. Norm Dwyer storyboarded this first issue and established all it the 3D models in Donna's virtual world. The main characters were the first models constructed starting with Donna Matrix. As Norm Dwyer designed and assembled all the primary models. Joe Allen modeled the supporting characters and set up basic action sequences while Mixe Saenz, wo ked on additional models. All 3D models were constructed over a network of Macintosh® Quadra 950s using Sw.vel Professiona. Software. The interest was designed and composed in Adobe Illustrator and special effects were added with Adobe Photoshop.

#### THE DIGITAL C. MICS METHOD

The 3D modelin software's flexibility allows us to construct virtually all the characters base on a single generic human template. For each character body parts are i shaped re sized, and detailed as needed. Basic colors are assigned to the nodels and basic scenes are assembled.



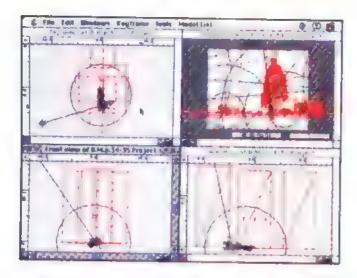
Everything in Donna Matrix is 3-D modeled. Every single model, whether it is a gun-car arm or helf buckle begins life as a sumple 3D cube.



Additional points (3D coordinates) are added to the hasic cube. Using 3 different views. Top. Side and Cross section, the cube is edited, shaped, and refused into a more complex object.



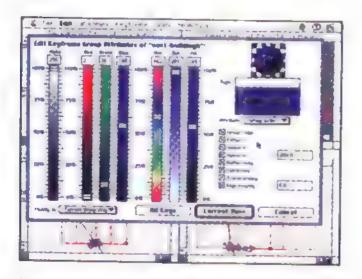
Complex and simple objects are then combined together to make more complex forms. The Donna Matrix model is composed of approximately 275 separate objects (41 237 polygons). From her eyehalls to her spike beers, each object was individually designed and constructed. Like placing an actor on a stage, the resulting mode, is then positioned within a 3D modeled set.



Once the scene is arranged, the models are then imported into the Electric Image An mation System (EIAS), a broadcast quality rendering and animation program.



Within EIAS cameras and lights are positioned Cameras can be flown through the cene. Unlimited lights can be used and every light or n be adjusted for color intensity, and range.



Every aspect of every object can be adjusted. The color reflection transparency and laminance of an object can be completely controlled and edited.

# CONSTRUCTING SCENES FOR IMAGING AND ANIMATION

MORES ANE INPORTED DITH AN APPROXIMATION AND

#### REMICHING PROCRAIN TO GENERAL THE FIRST MARCES

With our flexibility, it's simple to create basic scenes and to try several variations.

Once we are satisfied with the composition of a scene, we move on to staging

#### STAGING

Individual scenes are imported into the Electric Image Animation System (EIAS). EIAS enames us to establish the final color of each object of each scene.

Then we can set the surface attributes and apply texture maps. We can create surfaces that are shiny or matte and establish whether and object is transparent, or opaque, or casts a shadow

#### LIGHTS

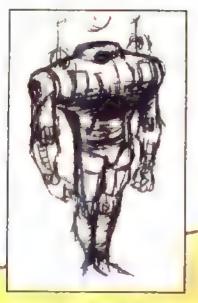
Lights are positioned in 3D space to illuminate the scene. There are several types of lights we can use in EIAS. A Radial light (such as a light hulb) can be set to drop off at any radius. Spotlights can be narrow or broad. Tube lights can be any length. Color and intensity can be set for each light

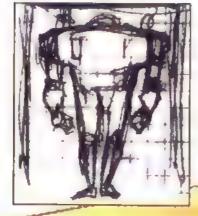
#### CAMERA

A Virtual Camera is positioned and used to capture the desired view, the camera operates like reality taking and rolling anywhere in 3D space it can be animated to fly and give a variety of dramatic views of a scene

#### ACTION

Characters can be animated to run jump, kick or punch and vehicles can drive or fly through a scene. Donna matrix, created with animation, is then edited for the most dramatic still frames to create an action sequence





## CHARACTER DESIGN

OH, SO PEN AND PENCIL DID HIT PRPER FOR A FEW EARLY CONCEPT SHETCHES ON DONNA MATRIK. WE PRESENT THEM HERE FOR YOUR ENJOYMENT!

Above are two sketches by Dwyer of the the Cyber-S E A.L. See the last page of this issue for a preview

Helow are a few design sketches of the hacker character and the CPD police uniforms by Saenz



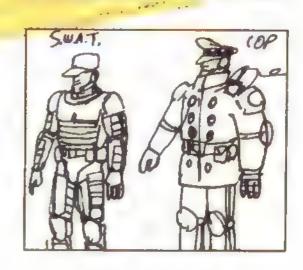
The original design sketch of Donna Matrix by Saenz. This was the basis of the model that Dwyer constructed. The final Donna Matrix model remains very faithful to ber original design.







On the left is an early design sketch of the police flyers by Dwyer





A basic off scene reinfered by LTAS Highlights are used to create a haze around the wree-tage. An administrated texture map is use to create glowing windows on the building



The same scene after image editing. A scan of billowing smoke is composited into the scene and flaines are painted into the wreckage using Adobe Photoshop.



The final image is imputed into Adob. Illustrator and placed on a page traduction ext. Indiscindent effects are then added.

# IMAGE PROCESSING AND PAGE COMPOSITION

#### RENDERING

After all the attributes and settings of the scene have been set, the image is rendered. EIAS computes all of the objects, texture maps, bump maps, lights and action sequences automatically. Within minutes, the high-resolution images appear.

#### IMAGE EDITING

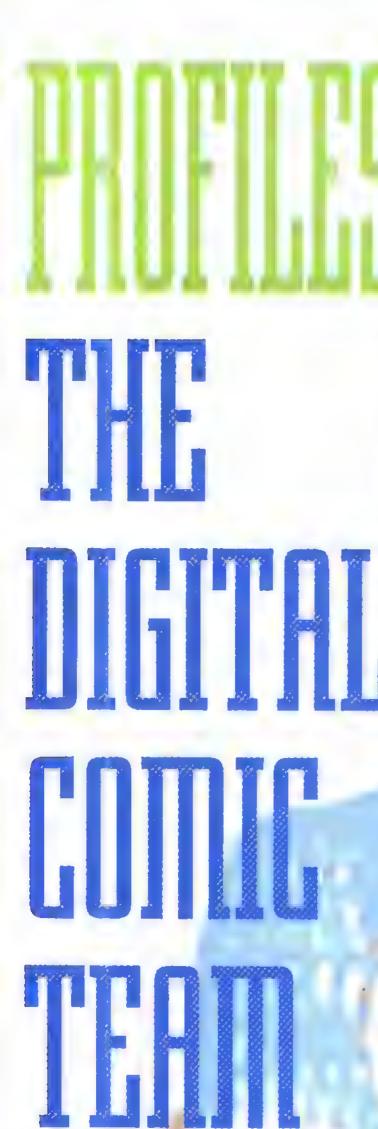
Adobe Photoshop erases imperfections. Smoke, flames, laser blasts, and other pyrotechnics are digitally painted onto the image. Computer 31 can't recreate convincing pyrotechnics. In the example on the left, smoke and fire from two separate stock photos were scanned into the computer and matted into the image.

#### PAGE CHEATION

Once finished the image is imported into Adobe Illustrator to digitally compose a final page. Word balloons and sound effects are added and can be re-sized or place anywhere on the page. The final page is complete

#### DIRECT OUTPUT TO FILM

The pages are digitally separated into the films used to print the book. The original work behind Donna Matrix exists only as stored computer bytes until the first print run





#### MIKE SAENZ

Mike Saenz is a job of titise or's might mare, the is worked professionally as a graphic designer, comic book artist writer, software designer, computer game designer, animator, the rist reads like the Help Wanted ads

In the middle Bight es .c.ng a Marintosh with less BAM than that of many of today's microways ovens. Mike produced Shaller—the first computer generated formic book "First Coinics—1985" Mike later went on to find Beactor Inc. and to produce 3 ich award winning titles as Virtual Valence cheactor. [3:40] and Spacechip Warrick (Beactor, 1991). Mike was recently voted "Most Declined unabout the Year" by the organization Mathers Against cyerything.

A stackler for detail. Saenz check the integrity of Digital Compas scripts by personally relenanting them in the mile of Donna Motrix lover four weeks of personal research in the had parts of Chicago relt Miki-brused battered and requiring more than a few court appearances.

Having come full a resulter mother to Donna Matrix in less than a denade. Mike is the indephatic father of computer comics, although he is still remanding a cloud test.



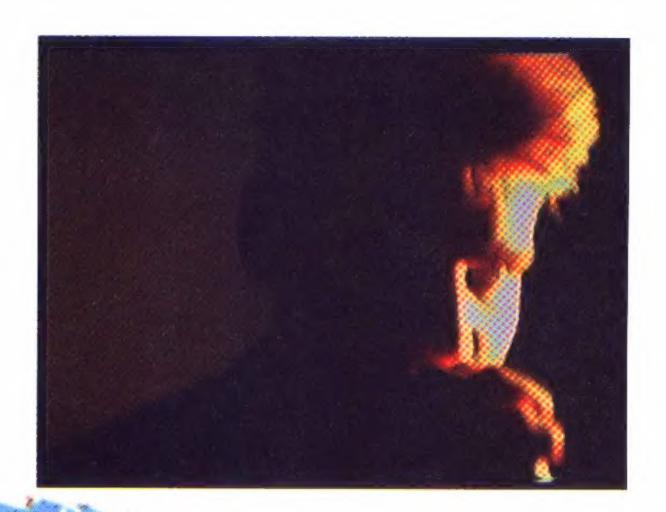
#### NORM DWYER

Since creating Libby Ellis in 1987 (Malibu Comics). Norm has worked for every major comic book publisher worth mentioning.

Norm went digital in 1975 when he first saw a Techtroniks micro computer. Recounts Norm "She had the biggest pair of CH is I'd ever seen "Norm's love affair lasted through countless interactive media projects until 1992 when he was released into the custody of Reactor Inc. With his keen eye for dynamic imagery. Norm screams through cinematic sequences with the vision of a consummate film director on a caffeine overload.

Besides being a dedicated rechnophile. Norm is the founder of the CCCO (Creative Cartooning and Comic book Professionals). Norm inshigated landmark proceedings when he sued the Soviet Union for using his organization's unitals without written permission. Norm's victory in the lawsuit eventually led to the complete breakup of the Eastern Bloc countries.

As Reactor's Special Projects Manager Norm wears numerous hals all of which are too small for his big head

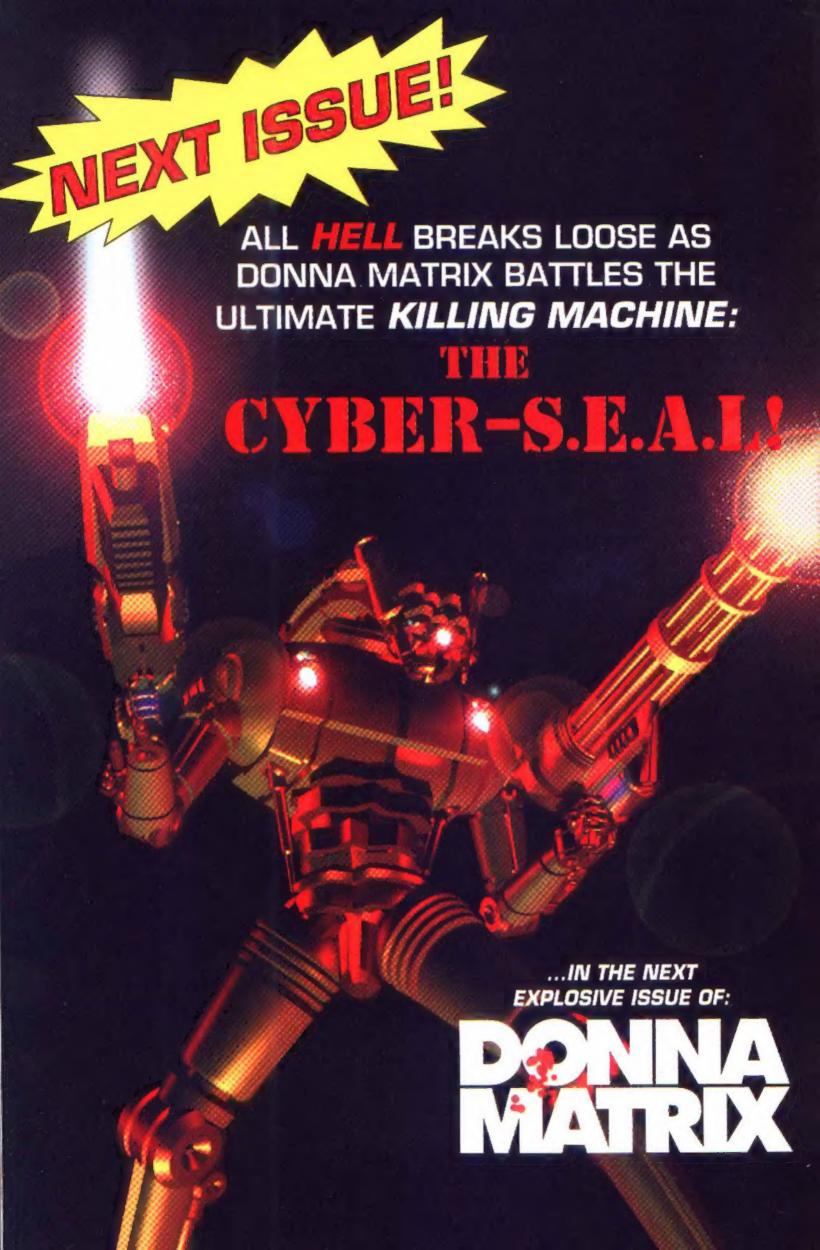


#### JOSEPH ALLEN

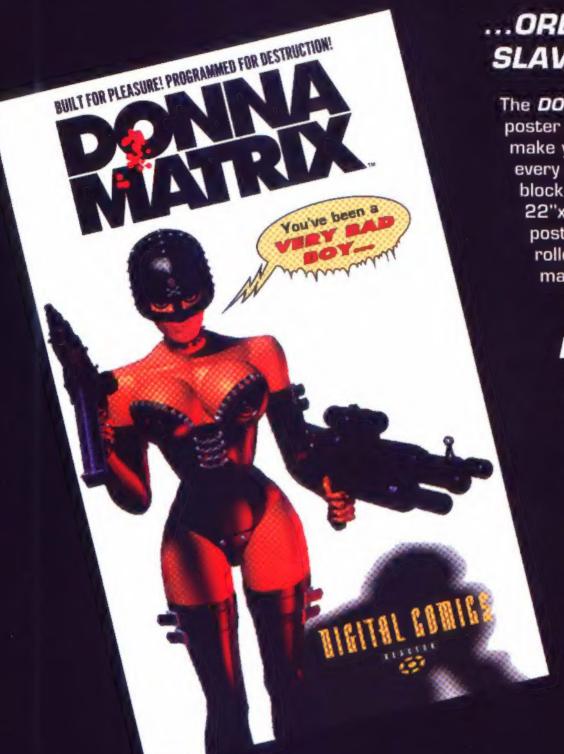
Joseph Allen has worked as a professional cartoonist since the age of nineteen when he was promised quick money and good times.

In addition to being an accomplished cartoonist. Joe is a talented musician. He entered the world of digital media when he first laid his hands on a Roland TR-909 rhythm composer. Since then, Joe has been an unstoppable groove machine.

After scoring literally hundreds of songs. Joseph's love of music led him to Reactor where he now applies his talents to scoring the music and creating stunning imagery on Reactor's CD-ROM titles.



### YOUR MISTRESS COMMANDS...

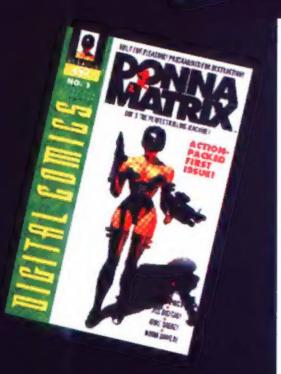


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Reactor Inc., 445 West Erie, Chicago, IL 60610.

Unit Price Quantity Total

Sub-Total

Illinois residents add 8.75% sales tax

Total

Please allow 4 weeks for delivery.



# IIGITAL COMICS

REACTOR